

Product datasheet for **MR218633**

Cerk (NM_145475) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cerk (NM_145475) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cerk
Synonyms:	A1848610; D330016D08Rik; mKIAA1646
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218633 representing NM_145475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGCAATGGGGGCGCGGAGCCGCTGCACTCCGTGCTGTGGGTGAAACGGCGACGCTGTGCCGTCA
 GCCTGGAGCCCGCGGGCTCTGCTACGCTGGTGGCGGAGCCCGAGCCGGGCCCTCCGCGCCGGGTGC
 CGATGCCCGCTCGGTACTGGTGTGCGGAGATCATCGCTGTTGAGGAAAAAGACGACTGCGAGAAAACGCC
 TCCAGTGGCCGATGGCATAAAATGGAAAATCCGTTTCGATTACACAGTCCACCGTGTGAAGCGAGTACGAC
 ATCACCCTGGAAGTGGGACGGGTGACCTTCTGGAGCGCCGACGAGCAGCTGTGTACCTGTGGCTGCA
 GACCTCCGTGGGCTGCTGGAGAGCCTGACTTCAAGACCGAAGCACTTGTGGTATTATCAACCCCTTC
 GGAGGAAAGGTCAGGGCAAGCGCATCTATGAAAAACAGTGGCGCTCTGTTTACCTTGGCTTCCATCA
 CTACGGAGATCATATTACAGAGCATGCCAACCAAGCAAGGAGACTTTATACGAGATCAACACAGACAG
 CTATGATGGCATCGTGTGCGTAGGTGGGACGGCATGTTACGCGAGGTGCTGCATGGGGTATTGGGAGG
 ACGCAGCAGAGCGCTGGTATCGACCCCAATCACCCCGAGCCGTGCTGGTGGCCAGTACCCTCAGGATCG
 GCATCATACCCGACGGTCCACAGATTGTGTGTACTCAACAGTGGGCACAAAACGACGACGAGACATC
 GGCTTTGCACATCATTATTGGGACTCACTGGCAATAGACGTGTCCTCTGTGCACTACCATAACACGCTG
 CTGCGGTACTCGGTTTCTGCTGGGCTACGTTTCTACGGGACTTAATCAAGGACAGTAAAAGAAAAC
 GGTGGATGGGCCCTCGTCCGGTATGATTTCTCAGGGTTGAAGACCTTTCTCTCATCAGTACTATGAAGG
 GACTGTCTTCTCCAGCACAGCACACGGTGGGATCTCCACGGGACAATAAACCTGCCGGGCTGGG
 TGCTTCGTGTGCAGGCAGAGCAAGCAACAGCTGGAAGAAGAAGAGAAGAAAGCCCTGTATGGCCTGGAGA
 ACGCCGAGGAAAATGGAAGAGTGGCAAGTGACATGTGGGAAGTTCCTGGCCATCAATGCCACCAAGTGC
 CTGTGCTTGTCTCGGAGCCCTGGGGCCTGTCCCATTTGCCCATCTGGGAGATGGGTCTTCTGACCTC
 ATCCTTATCCGGAAGTGTCCAGGTTCAACTTCTGAGATTCTCATCCGGCACACGAACAGGAGGACC
 AGTTCGACTTCACTTTCGTTGAAGTTTATCGAGTCAAGAAATCCACTTACGTCGAAGCACGTGGAAGA
 CGAGGACAATGACTCGAAGGAACAAGAGAAGCAGAAGTTTGGGAAGATCTGCAAGGACAGACCCTTTGC
 ACTTGCTCAGCCTCCAGAAGCTCCTGGAAGTGCATGGCGAAGTGCATGCACAGCCCGCCATTGAGGTCA
 GGGTCCACTGCCAGCTGGTGGCCTCTTGTCTCGGGGAATCGAGGAAGAGTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218633 representing NM_145475
 Red=Cloning site Green=Tags(s)

MGAMGAAEPLHSVLWVKRRRCVLSLEPARALLRWWRSPEPGPSAPGADARSVLVSEIIAVEEKDDCEKHA
 SSGRWHKMPFAFTVHRVVRVRRHHRWKWARVTFWSADEQLCHLWLQTLRGLLESLTSRPKHLLVFINPF
 GGKQGQKRIYEKTVAPLFTLASITTEIIITEHANQAKETLYEINTDSYDGI VCVGGDGMFSEVLHGVIGR
 TQQSAGIDPNHPRAVLVPSTLRIGIIPAGSTDCVCYSTVGTNDAETSALHIIIGDSLAI DVSSVHYHNTL
 LRYSVSLLGYGFYGDLIKDSEKKRWMGLVRYDFSGLKFTLSHQYYEGLSFLPAQHTVGS PRDNKPCRAG
 CFVCRQSKQQL EEEEEKALYGLENAEEMEEWQVTCGKFLAINATNMSCACPRSPGGLSPFAHLGDGSSDL
 ILIRKCSRFNLRFLIRHTNQEDQDFTFVEVYRVKFFHFTSKHVEDEDNDSKEQEKKQFKICKDRPSC
 TCSASRSSWNCDEVMHSPAIEVRVHCQLVRLFARGIEEES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9081_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN:

NM_145475

ORF Size:

1593 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq:
[NM_145475.4](#), [NP_663450.3](#)
RefSeq Size:

4562 bp

RefSeq ORF:

1596 bp

Locus ID:

223753

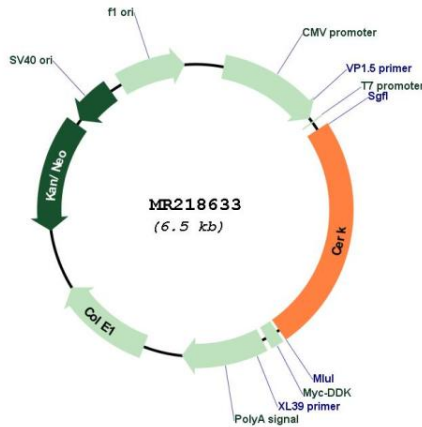
UniProt ID:
[Q8K4Q7](#)
Cytogenetics:

15 E2

MW: 59.8 kDa

Gene Summary: Catalyzes specifically the phosphorylation of ceramide to form ceramide 1-phosphate (PubMed:16269826). Acts efficiently on natural and analog ceramides (C6, C8, C16 ceramides, and C8-dihydroceramide), to a lesser extent on C2-ceramide and C6-dihydroceramide, but not on other lipids, such as various sphingosines (PubMed:16269826). Shows a greater preference for D-erythro isomer of ceramides (By similarity). Binds phosphoinositides (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218633